

Designer Note: Insert into projects with PCC jointed pavement.

DOWEL BAR ASSEMBLIES

Effective: January 20, 2017

If the Contractor chooses to use Dowel Bar Assemblies instead of using a Dowel Bar Inserter, the following installation method shall be followed:

Revise Article 420.05(c)(2) to read:

"Dowel Bar Assemblies. Dowel bar assemblies shall be installed at right angles to the centerline of the pavement with the dowel bars parallel to the proposed pavement surface and to each other.

The assembly shall act as a rigid unit with each component securely held in position relative to the other members of the assembly. The entire assembly shall be held securely in place by means of metal stakes which shall penetrate both the stabilized subbase and soil or granular subbase. At least ten stakes shall be used for each 10, 11, or 12-ft. (3, 3.3, or 3.6 m) section of assembly.

The stakes shall loop over or attach to the top parallel spacer bar of the assembly and penetrate the subgrade or subbase at least 12 in. (300 mm).

At the location of each dowel bar assembly, the subgrade or subbase shall be reshaped and re-tamped when necessary.

Prior to placing concrete, any deviation of the dowel bars from the correct horizontal or vertical alignment greater than 3/8 in. in 12 in. (9 mm in 300 mm) shall be corrected and a light coating of oil shall be uniformly applied to the dowel bars.

Care shall be exercised in depositing the concrete at the dowel bar assemblies so that the horizontal and vertical alignment will be retained.